

A NEW SPECIES OF COLUMBELLID GASTROPOD
FROM EASTER ISLAND

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Two lots of shells from Easter Island were presented to the California Academy of Sciences, one by Ray Summers and the other by Mrs. Paul Steele. These specimens were collected by Frey Sebastian Englert.

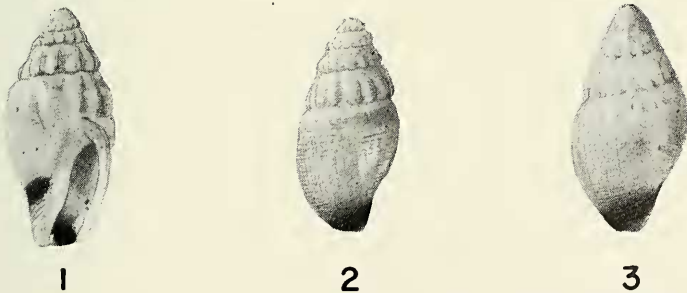
Among these shells is an interesting little columbellid which appears to be quite distinct from any described species. Accordingly, it is here described as new.

The writer here expresses his gratitude to several persons who compared specimens of this species with specimens in the collections in their respective institutions as follows: Dr. A. Myra Keen, Stanford University; Dr. Alison Kay, University of Hawaii and Bernice P. Bishop Museum; Dr. Harald A. Rehder, United States National Museum.

The photographs, retouched by Mrs. Margaret Hanna, were prepared by Maurice Giles. Measurements were made by Dr. G Dallas Hanna.

The new species may be known as:

Zafra pascua Hertlein, NEW SPECIES



Figures 1-3. *Zafra pascua* Hertlein, new species. Fig. 1. Holotype. Height, 6.15 mm., maximum diameter, 2.83 mm. Fig. 2. Paratype. Height, 5.91 mm., maximum diameter, 2.80 mm. Fig. 3. Paratype. Height, 6.05 mm., maximum diameter, 3.06 mm. (Photographs by Maurice Giles, retouched by Margaret Hanna).

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Shell small, elongately ovate, fairly thick; $4\frac{1}{2}$ whorls, the sutures impressed; protoconch dome-shaped, smooth; whorls sloping with a slight concavity on the posterior third; axial sculpture consists of rounded, axial ribs, about 15 on the penultimate whorl, extending from suture to suture but fading out on the anterior half of the body whorl; interspaces narrower than the ribs and crossed by very fine incised spiral striae; canal short, sculptured with 5 or 6 fine, well-defined, obliquely sloping spiral grooves which above and below give way to finer striae; aperture rather narrow, columella slightly curved, interior of inner and outer lips smooth; shell white except for a narrow black band beginning near the middle of the edge of the columellar lip and extending obliquely downward around the base of the canal, visible through the inside of the shell. Length, 6.15 mm.; maximum diameter, 2.83 mm.

Holotype: no. 12408 and paratypes, nos. 12409, 12410 (California Academy of Sciences Department of Geology Type Collection), from Loc. 34203 (CAS), Easter Island; Frey Sebastian Englert, collector.

On some specimens of the paratypes of this species the axial ribs are nearly obsolete on the body whorl. The fine lines of growth are crossed by concentric striae lending a decussate appearance under magnification.

The general shape and sculpture of the present species bear a general resemblance to that of *Anachis*. However, the narrow aperture and smooth inner and outer lips are quite different from members of that group. The characters of the aperture suggest the reason for placing it in the genus *Zafra* A. Adams. Dr. Rehder agreed in this general placement of this species (written communication May 18, 1962) in or near the *Zafra* group and it is here provisionally so placed.

The general shape and external sculpture of *Zafra pascua*, new species, resemble that of the species described as *Columbella pumila* Dunker² from Japan which later was placed in the genus *Zafra* by Taki and Oyama³. The shell of the new species differs from that of Dunker's species in the smooth interior of the outer lip and in the dark band of color around the canal, whereas the corresponding lip of *Z. pumila* was described as plicated or subdenticulated and the color of the exterior uniformly fuscous.

²*Columbella pumila* Dunker, Malakozool. Blätter, Bd. 6, p. 224, January, 1860. Japan.—Dunker, Moll. Jap. Descript. et Tab. Trib. Icon., p. 6, pl. 1, fig. 4, 1861.

³*Zafra pumila* (Dunker). Taki and Oyama, Palaeo. Soc. Japan, Special Paper No. 2, pl. 43, fig. 10, 1954.